

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently amended) An isolated polynucleotide selected from the group consisting of
  - (a) a polynucleotide comprising ~~a coding region of the nucleotide sequence set forth in any one of the following SEQ ID NOs: SEQ ID NO: 3 and 1, 3, 5, and 7;~~
  - (b) a polynucleotide comprising a nucleotide sequence encoding a protein comprising the amino acid sequence ~~set forth in any one of the following SEQ ID NOs: of SEQ ID NO: 4 2, 4, 6, and 8;~~
  - ~~(c) a polynucleotide comprising a nucleotide sequence encoding a protein comprising an amino acid sequence selected from the amino acid sequences of (b), in which one or more amino acids are substituted, deleted, inserted, and/or added, wherein said protein is functionally equivalent to the protein comprising said amino acid sequence selected from the amino acid sequences of (b);~~
  - ~~(d) a polynucleotide that hybridizes with a polynucleotide comprising a nucleotide sequence selected from the nucleotide sequences of (a), and that comprises a nucleotide sequence encoding a protein functionally equivalent to the protein encoded by the nucleotide sequence selected from the nucleotide sequences of (a);~~
  - ~~(e) a polynucleotide comprising a nucleotide sequence encoding a partial amino acid sequence of a protein encoded by the polynucleotide of (a) to (d);~~
  - ~~(f) a polynucleotide comprising a nucleotide sequence with at least 70% identity to the nucleotide sequence of (a).~~
2. (Original) A substantially pure protein encoded by the polynucleotide of claim 1.
- 3 – 4. (Canceled)
5. (Original) A vector comprising the polynucleotide of claim 1.

6. (Currently amended) ~~A transformant carrying~~ An isolated cell comprising the polynucleotide of claim 1 or the vector of claim 5.
7. (Currently amended) ~~A transformant expressively carrying~~ An isolated cell which expresses the polynucleotide of claim 1 or the vector of claim 5.
8. (Currently amended) A method for producing the protein of claim 2 ~~or the peptide of claim 3~~, comprising culturing ~~the transformant of claim 7~~ an isolated cell expressing the polynucleotide of claim 1 and recovering the expression product.
9. (Currently amended) A method for producing the protein of claim 2, comprising culturing an isolated cell expressing the vector of claim 5 and recovering the expression product. An oligonucleotide comprising the nucleotide sequence of claim 1 (a) or the nucleotide sequence complementary to the complementary strand thereof, wherein said oligonucleotide comprises 15 nucleotides or more.
- 10 – 16. (Canceled)